JOURNAL OF AUTONOMIC PHARMACOLOGY

Editor: K. J. Broadley DSc

Volume 9

1989

Blackwell Scientific Publications

OXFORD · LONDON · EDINBURGH · BOSTON · MELBOURNE

© 1989 Blackwell Scientific Publications Ltd

Authorization to photocopy for internal or personal use or for the internal or personal use of specific clients is granted by Blackwell Scientific Publications Ltd for libraries and other users registered within the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of $03.00 per copy is paid directly to the CCC, 27 Congress Street, Salem, MA 01970, USA. This consent does not extend to other kinds of copying, such as copying for general distribution for advertising or promotional purposes, for creating new collective works or for resale. Special requests should be addressed to the Editor
0144–1795/89 $03.00

Published by Blackwell Scientific Publications Ltd
Osney Mead, Oxford OX2 0EL, UK
8 John Street, London WC1N 2ES, UK
23 Ainslie Place, Edinburgh EH3 6AJ, UK
3 Cambridge Center, Suite 208, Cambridge, MA 02142, USA
107 Barry Street, Carlton, Victoria 3053, Australia

ISSN 0144–1795

Printed and bound in Great Britain by Burgess & Son (Abingdon) Ltd., Thames View, Abingdon, Oxfordshire

Contents

Volume 9 Number 1 February 1989

1 Editorial

3 E. Adler-Graschinsky, A. B. Elgoyhen & N. V. Butta: Different receptor subtypes mediate the dual presynaptic effects of 5-hydroxytryptamine on peripheral sympathetic neurones

15 L. G. Howes, G. P. Hodsman, P. R. Rowe, E. Sumithran & C. I. Johnston: Cardiac 3,4 dihydroxyphenylethylene glycol (DHPG) and cathecholamine levels during perindopril therapy of chronic left ventricular failure in rats

23 T. C. Muir & K. A. Wardle: Vascular smooth muscle responses in normo- and hypertensive rats to sympathetic nerve stimulation and putative transmitters

35 K. Szemeredi, Z. Zukowska-Grojec, G. Bagdy, M. I. K. Fekete & I. J. Kopin: Opposite effects of chronic cortisol treatment on pre- and postsynaptic actions of clonidine in pithed rats

45 D. J. Stott, J. I. S. Robertson, J. M. McLenachan & S. G. Ball: Effects of short-term ketanserin treatment on the QT interval and vagal function in healthy subjects

53 O. L. Woodman: Noradrenaline-induced constriction of large and small coronary arteries in the anaesthetized dog

63 R. N. Willette, C. Sauermelch & J. P. Hieble: Stimulation of postjunctional alpha-1 and alpha-2 adrenoreceptors increases proximal urethral perfusion pressure in the pithed rat

71 C. Wilson: Inhibition by sulphonylureas of vasorelaxation induced by K^+ channel activators *in vitro*

Volume 9 Number 2 April 1989

79 J. M. Gurden, G. H. Apperley & G. M. Drew: A comparison of the properties of prenalterol and corwin at β_1– and β_2–adrenoreceptors *in vitro*

93 C. Jansakul, A. L. A. Boura & R. G. King: Effects of endothelial cell removal on constrictor and dilator responses of aortae of pregnant rats

103 A. J. Draper, S. Meghji & P. H. Redfern: Enhanced presynaptic facilitation of vascular adrenergic neurotransmission in spontaneously hypertensive rats

113 M. S. Elfellah, C. A. Hamilton, W. McIntosh, S. M. Barr, C. Howie & J. L. Reid: Skeletal muscle β_2-adrenoreceptors and the effect of adrenergic drugs on plasma potassium in perinephritis hypertension in rabbits

119 C. M. Rose'Meyer, M. P. Rechtman, A. L. A. Boura & R. G. King: Presynaptic α_2-adrenoreceptors affecting terminal synaptic transmission by the nervi cardiaci accelerantes in the rat

129 D. F. Magee, S. Naruse & A. Pap: A comparative study of gastric secretory stimulants in conscious dogs

139 F. E. Lüdtke, K. Golenhofen & F. Schubert: Angiotensin II stimulates human gastric smooth muscle *in vitro*

149 G. Lonart, L. G. Harsing jr, G. Folly & E. S. Vizi: Failure of selective antagonists (CH–38083 and idazoxan) to distinguish between prejunctional and postjunctional α_2-adrenoreceptors

Volume 9 Number 3 June 1989

159 C. D. Nicholson & R. Wilke: 8-phenyltheophylline as an inhibitor of cyclic AMP hydrolysis by cyclic nucleotide phosphodiesterase

167 R. J. Theobald jr & W. D. de Groat: The effects of purine nucleotides on transmission in vesical parasympathetic ganglia of the cat

183 D. F. Magee: The action of a β-adrenoreceptor agonist on gastric acid secretion in dogs

189 N. L. Ng & E. Malta: Organ-bath studies using the irreversible β-adrenoreceptor antagonist bromoacetylalprenololmenthane (BAAM)

201 R. A. Bond, D. A. Craig, K. G. Charlton, A. G. Ornstein & D. E. Clarke: Partial agonistic activity of GR43175 at the inhibitory prejunctional 5-HT_1-like receptor in rat kidney

211 S. Delaflotte, M. Auguet, E. Pirotzky, F. Clostre & P. Braquet: Effects of atrial natriuretic factor (ANF) on phenylephrine-triggered intra- and extracellular calcium dependent contraction in rat aorta

219 A. Krantis & C. Krause: Interactions of the ulcerogen cysteamine with enteric inhibitory nerves and putative transmitters in the rat small intestine

Volume 9 Number 4 August 1989

231 C. A. Maggi, P. Santicioli, S. Manzini, S. Conti, S. Giuliani, R. Patacchini & A. Meli: Functional studies on the cholinergic and sympathetic innervation of the rat proximal urethra: effect of pelvic ganglionectomy or experimental diabetes

243 R. A. Keith, T. J. Mangano, M. A. Pacheco & A. I. Salama: Characterization of the effects of ω-conotoxin GVIA on the responses of voltage-sensitive calcium channels

253 L. Abelli, V. Somma, C. A. Maggi, D. Regoli, M. Astolfi, M. Parlani, P. Rovero, B. Conte & A. Meli: Effects of tachykinins and selective tachykinin receptor agonists on vascular permeability in the rat lower urinary tract: evidence for the involvement of NK–1 receptors

265 S. A. Doggrell: The effects of β-adrenoreceptor antagonists on the force responses of the electrically driven rat right ventricle strip to isoprenaline

279 A. J. Barbier, F. Guenaneche & R. A. Lefebvre: Influence of GABA and ethylenediamine in the guinea-pig duodenum

Review

293 L. G. Howes & H. Krum: Plasma lipoproteins, cardiovascular reactivity and the sympathetic nervous system

Volume 9 Number 5 October 1989

303 J. S. Peterson & L. Noronha-Blob: Effects of selective cholinergic antagonists and α,β-methylene ATP on guinea-pig urinary bladder contractions *in vivo* following pelvic nerve stimulation

315 M. J. Rand, D. F. Story & T. Dowding: Examination of the paradoxical lack of responsiveness of the guinea-pig vas deferens to tyramine

329 K. Lawson & I. Cavero: Effects of Ca^{2+} antagonists and K^+-channel activators on K^+-induced contractions in the rat aorta

337 J. Abrahamsen & O. A. Nedergaard: Adrenaline released as a cotransmitter does not enhance stimulation-evoked ^{3}H-noradrenaline release from rabbit isolated aorta

347 R. Yamamoto, W. H. Cline Jr & K. Takasaki: Effect of moderate cooling on endogenous noradrenaline release from the mesenteric vasculature of rats

357 E. Schlicker, E. Urbanek & M. Göthert: ATP α,β-methylene ATP and suramin as tools for characterization of vascular P_{2x} receptors in the pithed rat

Review

367 P. K. Ganguly & W. A. Anderson: Involvement of the sympathetic nervous system in the development of cardiac hypertrophy: a fresh look at an old problem

Volume 9 Number 6 December 1989

379 Laura Bennett, A. Pap, S. Naruse & D. F. Magee: Isoprenaline and the pancreas in dogs

387 MARGARET D. BROWN: Myocardial chronotropic and inotropic responsiveness *in vitro* after chronic α_1-adrenoreceptor blockade in the rat

397 M. L. CUFFÍ, E. VILA & A. BADIA: Effects of some antipsychotic drugs on cardiovascular catecholamine receptors in the rat

411 P. KANNISTO & CH. OWMAN: Prejunctional α_2-adrenoreceptors modulate the stimulated release of noradrenaline in isolated follicle strips from bovine ovaries

Review

419 KARSTEN BECH: Autonomic control of secretion of gastric acid and pepsin

429 Author and Subject Indexes to Volume 9